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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/590,487

06/11/2007

Pedro Gonzales Rechea

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22428 7590 07/07/2009  
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EXAMINER

WALBERG, TERESA J

ART UNIT

PAPER NUMBER

3744

MAIL DATE

DELIVERY MODE

07/07/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/590,487	<b>Applicant(s)</b> RECHEA ET AL.	
	<b>Examiner</b> Teresa J. Walberg	<b>Art Unit</b> 3744	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-8, 11-14, and 16-20 are rejected under 35 U.S.C. 102(a) as being anticipated by Nitta (2003/0173069).

Nitta discloses a heat exchanger assembly for a motor vehicle (see abstract, line 1) including at least one manifold (110 in Fig. 3) at least one holder (200), a flange (105) secured to the manifold (110), the holder (200) and flange (105) being separate pieces (Fig. 3), the flange (105) includes at least one opening (220) configured to receive a connecting tube (122) and the flange (105) being configured to be fixed and joined to the manifold (110) by the at least one holder (200), the flange (105) being arranged laterally offset with respect to the manifold (see Fig. 2), the holder (200) being secured to the manifold and including a laterally protruding holding arm (210 or the unnumbered upwardly protruding tabs), the flange (105) having at least one holding attachment with a holding and guiding groove (at the lower surface of (105), the groove being configured to receive the holding arm (the upwardly protruding tabs), the connecting tube (122) being configured to be (capable of being) inserted into the manifold (110) and into the flange (105), the connecting tube (122) can be (is capable of being) soldered to the manifold (110) and flange (105), the flange

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(105) has two holding attachments (210) and is connected to the manifold (110) by two holders (210) arranged parallel to one another (Fig. 3), the flange having a connection face (Fig. 3), the heat exchanger having an end face, the connection face and end face being approximately parallel (Fig. 3), the flange (105) has two connection openings (115, 120) arranged next to one another in the connection face (Fig. 3), the heat exchanger including a block having tubes and fins (100), the heat exchanger is configured to be (interpreted to mean capable of being) soldered in complete form (Fig. 1b) with the at least one manifold (110), the connecting tube (122), the holder (200) and the flange (105), the flange (105) having four openings (Fig. 3), the openings being capable of engaging with ends of a connecting tube (122) and with an inlet and outlet of a refrigerant circuit (Fig. 3), the flange and manifold being soldered together (para. 0032), the flange having two openings (115, 120, 220) capable of engaging with a connecting tube, the holder (200) being caulked (interpreted to mean secured by compression) to the manifold (110).

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nitta (2003/0173069).

Nitta discloses a heat exchanger assembly having the claimed structure with the exception of flange being produced by extrusion, extrusion molding, casting, or drop-forging. However, extrusion, extrusion molding, casting, and drop-forging are conventional methods of forming metal parts. It would have been obvious to one of ordinary skill in the art to make the flange by extrusion, extrusion molding, casting, or drop-forging, since such processes are recognized in the art as being interchangeable.

5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nitta (2003/0173069) in view of Sasaki (EP 1 158 261).

Nitta discloses a heat exchanger assembly having the claimed structure with the exception of the assembly including two connecting tubes. However, Sasaki discloses using two connecting tubes (6a, 6b) between a flange (30, 40) and a manifold (2). It would have been obvious in view of Sasaki to use two connecting tubes with the heat exchanger assembly of Nitta, the motivation being to enable connecting the parts from different directions.

6. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

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7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Teresa J. Walberg/  
Primary Examiner, Art Unit 3744

/TW/